

AMENDMENTS TO THE SPECIFICATION

Please add the following new figure descriptions at line 16 of page 12:

Figure 22 is a table of operating parameters at various different positions within the power generation system depicted in Figure 19.

Figure 23 is a table of operating parameters at various different positions within the power generation system depicted in Figure 20.

Please amend the paragraph starting at line 16 of page 40, to read as follows:

~~Figures 19 and 20~~ Figures 19, 20, 22 and 23 show variations on the power plant shown in Figure 18. The power plant variations of ~~Figures 19 and 20~~ Figures 19, 20, 22 and 23 primarily provide additional detail as to the compressors, intercoolers and other equipment required for the particular system depicted therein and configured to combust syngas. Syngas can be derived from a variety of different sources with the constituents of the syngas identified in the table of Figure 21. Such a syngas can be produced by gasifying a fuel such as coal or biomass, or can be provided in the form of landfill gas or can otherwise be provided from various different sources.

Please amend the paragraph starting at line 24 of page 40, to read as follows:

The power plants depicted in ~~Figures 19 and 20~~ Figures 19, 20, 22 and 23 each include the particular conditions existing at each of the components, including the pressure, temperature and flow rate of fluids passing through each of the components. Also, the power produced or the power consumed by each of the components is shown such that overall thermal efficiencies can be calculated.

Please amend the paragraph starting at line 2 of page 41, to read as follows:

In the power plant depicted in ~~Figure 19~~ Figures 19 and 22, a power plant is depicted which includes one gas generator and one reheater as well as three turbines and two

feed water heaters. When operating on syngas, at the temperatures and pressures identified, and when compressing the resulting carbon dioxide for sequestration, an overall thermal efficiency of 27.21% results. In the power plant depicted in ~~Figure 20~~ Figures 20 and 23, one gas generator is provided along with two reheaters and three turbines, and with three feed water heaters. When the power plant of ~~Figure 20~~ Figures 20 and 23 is operated with a syngas fuel, at the temperatures and pressures identified, and the carbon dioxide is pressurized for sequestration, an overall thermal efficiency of 44.97% results.

Please amend the paragraph starting at line 11 of page 41, to read as follows:

These systems can be altered such as by being configured to combust natural gas or other hydrocarbon fuels. Also, the temperatures and pressures of the components can be altered to optimize efficiency, to the extent the turbines, gas generators, reheaters and other components of the system can withstand the pressures and temperatures involved. The oxygen plants depicted in the power plants of ~~Figures 19 and 20~~ Figures 19, 20, 22 and 23 can be based on any type of air separation unit. The particular components depicted in ~~Figures 19 and 20~~ Figures 19, 20, 22 and 23 utilize cryogenic air separation. With the use of ion transport membrane (also called ion transfer membrane) technology, less power would be required for air separation and the efficiency of the power generation systems would increase significantly.

AMENDMENTS TO THE DRAWINGS

The attached formal drawing sheets replace the drawings as originally filed.

Attachment: Replacement Formal Drawings (22 sheets)
 Annotated Sheets Showing Changes (2 sheets)